

Tech Note

Installing Mic/Line Cards in Intelix E Series Matrices

This document explains the installation of the eight channel mic/line preamplifier input card in the Intelix E Series Matrix Mixer. Supported models include the Intelix MARC E matrix, MZP E matrix, and M Series E matrix.

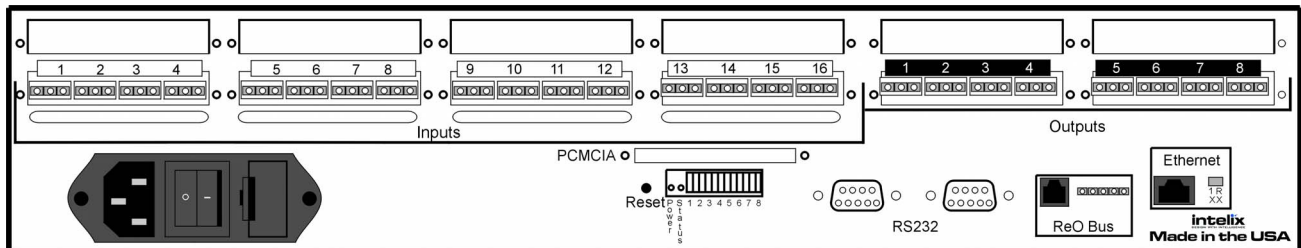


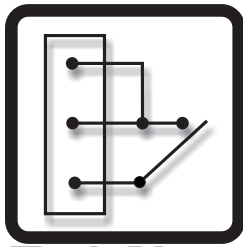
Figure 1. E Series matrices feature ethernet control and dual communication ports.

Installation Instructions:

- 1) Connect a computer with matrix-specific Intelix Designer Software (M Series Designer Software, MZP Designer Software, MARC Designer Software) to the matrix.
- 2) Extract the programming files from the matrix (select “read matrix”). Save the file for later reference.
- 3) Turn off power and unplug the matrix.
- 4) Disconnect all audio and communication cables from the matrix. Intelix suggests labeling the cables for ease of re-connection.
- 5) If rack-mounted, remove the matrix from the rack to a suitable location to perform the modifications. Verify that your location and body has proper ESD grounding equipment; Intelix mic/line cards are ESD sensitive devices.
- 6) Remove the top panel of the matrix.
- 7) Remove the power cable and input ribbon cable from the existing installed input card.
- 8) Remove the four screws securing the line-level input card to the rear panel.
- 9) Remove the line-level input card.
- 10) Install the mic/line card in the vacated slot.
- 11) Secure the mic/line card to the rear panel using the four included screws.
- 12) Connect the input ribbon cable. Pay special attention that the cable is not twisted or crimped during installation as it may damage the cable.
- 13) Verify/configure proper settings for the mic/line card dipswitches. Required dipswitch settings are presented in the Intelix Designer Software.
Diagnostics > Device Information > Internal Hardware > Mic Position (double click)
- 14) Connect the power cable.

Required Tools

- (1) Phillips screw driver
- (1) Flat edge screwdriver
- (1) PC computer
- (1) Intelix Designer Software
- (1) ESD grounding kit



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- 15) Remove the IPB cable from the bottom crosspoint board and connect the cable to the IPB connector on the mic/line card so that the mic/line card connects to the matrix CPU. Connect the second IPB jack on the mic/line card to the bottom crosspoint board.
- 16) If a second mic/line card is being installed, use the included shorter IPB cable to connect the two mic/line cards (see figure 2).
- 17) Replace the top panel of the matrix.
- 18) Connect all audio and communication to the matrix.
- 19) Connect the power cord to the matrix and power on the matrix.
- 20) Connect to your computer with the pre-saved matrix-specific Intelix Designer Software file (refer to Intelix Tech Note #142 for connection instructions).
- 21) Update the Intelix Designer Software with the newly installed mic/line card.
 - a) Open the Intelix Designer Software and open the pre-saved file.
 - b) Update the audio sources by adding the mic/line card.
 - c) Re-save your file and upload it to the physical matrix.

Installation > Upload/Download > Write File to Matrix
 - d) In the Intelix Designer Software, select:

Diagnostics > Device Information > Internal Hardware
 - e) Confirm the mic/line card is responding.
 - f) If the mic/line card is not responding, return to step 1 and troubleshoot your installation. If necessary, contact Intelix Technical Support.

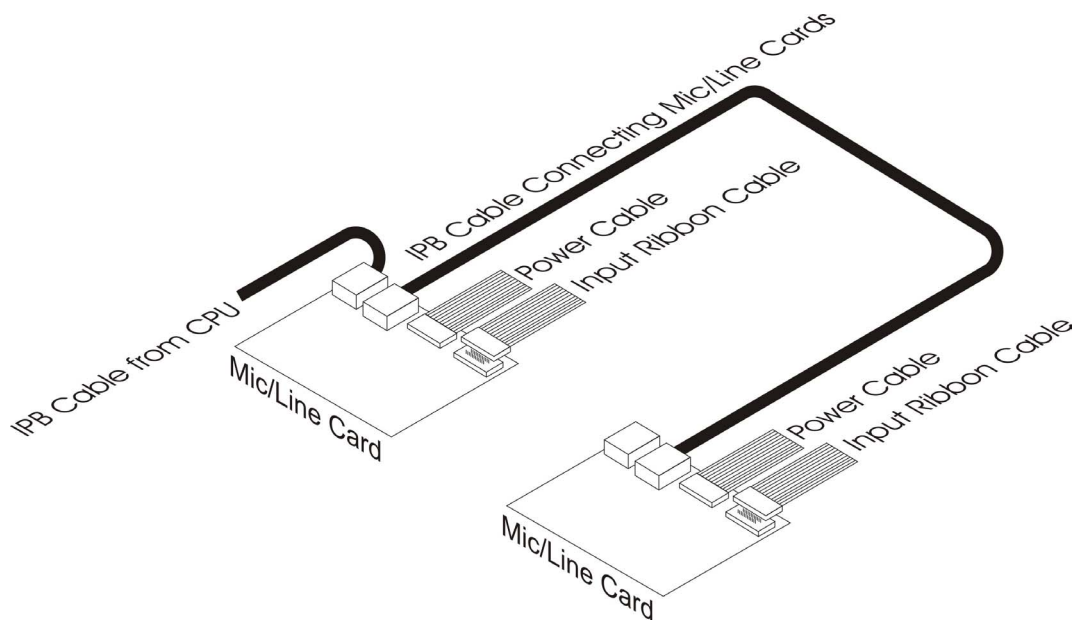


Figure 2. Intelix Mic/Line Card board layout and connection points.